faſtned to a ſtrong Thread, which going over the Pulley is ſtretched horizontally from G to the Nails F; to which it is faſtned, ſo as to be about a quarter of an Inch above the Board.

B is one of the Bladders, hanging with the Neck or heavieſt part downwards, by means of a Loop of fine Thread as E H, which goes over the Horizontal Thread G E F. Now when with a pair of Sciſſars the Thread of the Lead (which in all is but one Foot long) is cut juſt at E, before the Loop of the Bladder, the Lead pulling away the String the Loop of the Bladder ſlips off the remaining Thread F E, and begins to fall exactly in the ſame Inſtant as the Lead: But if the Thread ſhould be cut between E and F, as the Lead falls its Thread might give the Bladder an oblique Direction.

He that obſerves the time either with a Pendulum or Chronometer may take it very exactly, by ſeeing the motion of the Sciſſars as they cut the Thread.

N. B. As the Diameters of the Bladders were taken by wrapping a Thread twice round them, and ſomething muſt be allowed for the thickneſs of the Thread; I have here under ſet down the Diameters of the Bladders, as corrected by that Allowance. *Viz.* A 5,28 Inches; B 5,19; C 5,30; D 5 $\frac{1}{4}$; and E juſt 5 Inches in Diameter.

The Bladder E was rough, with ſeveral Wrinkles and inequalities, which made it be longer in falling than it ought to have been, according to its Diameter and Weight.

A Pail of Water thrown down met with ſuch a Reſiſtance in falling 272 Foot thro' the Air, that it was all turn'd into Drops like Rain.

F I N I S.

ERRATA. *Phil. Tranſ.* N°. 357. Page 848. l. 22. lege ab *h* 11′ 32″. N°. 359. p. 932. l. 17. lege $t = 0''$,1. p. 937. l. 5, 6. lege reſtituantur. Et Syſtole Arteriarum cum Cordis Diaſtole duratione convenit. N°. 361. p. 1005, l. 16. read, *proof of the falſity of the Opinion.*